NEWS SUMMAR

| Move on | Case and |
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| British | IH deal |
| miners＇ | may take |
| assets | 3 years |

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## Wine lake problem key to deal on EEC expansion by quentn peel in brussels



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## Big investors rebuffed as BT share offer 4 times oversubscribed as BT share offer 4 times oversubscribed

## by alison hogan in london




Statistical trends：the U．S．EEC：the only way out of the
dollar
Technology：sewer robot to Lombard：culture＇s role in
touch touch－screen video ． 11 crumbling Africa ．．．．．．．． 15
UK economics：alternative to Lex：the Johnson Matthey
the dole
Editorial comment：Gatt；Soifware services：
freedom of information ．． 14 Survey
Section III

## Hawke

 blames setback on voting ＇confusion＇
## $\%$

MR BOB HAWKE，the Austalian
 been denied an emphatic win in
Sotardar＇s senerat eleation weacause
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voting procedres．
With more than 500,000 votes dis－
 be about 18 i instead of the eipected
40 to 50 ．
The result bas damaged Mr
 bition parties．
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butse）Thussand af Austanans
mistakenly assumed that the sys

 Ass a result，their votes were diss
qualifited Labor claims that about
80 oper cent of the disualified votes
were Labor votes in the confusion

 workers
Lith countivg not yet complete，
Labor has 79.5 seats so the coalition＇s
 Labor mpajority of 18 ．
The number of yote

| Leading creditor banks are also keen to resolve Argentina＇s prob－ ance sheet and provit reporting deadline．They believe that a solu－ tion for Argentina would improve the climate for other debt negotia tions，particularly those they still fions，with Brazili，whose epveromenent is to change in the spring <br> Argentina＇s debt package hiages on घa，eronomif stabilisation pro－ grammeit agieed with the Intena fiooal Monetary Fund last Septem－ ber． <br> Mr Jacques de Larosiere，IMF Managing Director，has told bank <br>  the MF until the bank package is weli on the road to completion． <br> In the two years since the debt crisis arose，Argention has estab－ ished a tradition of brinkmanship in negotiating with its creditors． Talks have also frequenty been Tomplicated by bilateral friction be tween Argentina and the British banking community after the Fat klands war． <br> Capital markets，Section II |
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Argentina close to agreement on debt package

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the way you prefer．So we
put＇bu first＇ put＇hou，first：＇ Westpac＇s Forex team is
highly respected，quick and
reliable in a fast market And reliable in a fast market．And
through unrough our international
branch network we round the We Cock ist bank in Australia．Wére also in nineteen other countries． As you might expect Westpa is strong in Pacific Basin currencies．But it＇s a fact that currencies，too． ＇You，first＇is also true for

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Westpac



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| that momment．．．．．．．．．． | 侣 |



Have you heard?There's something special in the air. American Airlines. Every day of the week they fly non-stop to Dallas/ Fort Worth from Gatwick. From Dallas/Fort Worth there are connections to 45 cities in America's South West
and to Mexico. But do not tell the
people in the traffic jam on the M4
to Heathrow. Because there's
not one regular scheduled
non-stop service from
Heathrow to Dallas/Fort
Worth. And we do
not want Gatwick
to become as
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AmericanAirlines
Something special in the air

OVERSEAS NEWS
Regn its
Duarte rejects rebel peace plan
wal to

## Pisani sent to New Caledonia



## Hussein in plea for

 Arab unity


Irish Central Bank in bid to minimise effect of strike


## Moderates favoured for Grenada poll



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of the Uniced Natron

## AREYOUA CAMBEERT

When the money you are looking after belongs to
other people, you car't afford to take risks with it other people, you can't afford to take risks with
But if you don't have a reliable source of inform-But in you don have a reliabe source y y
ation on which to base yourdecisions, you could
be gambling your reputation away. be gambling your reputation away.
Minimise the sisks by maximsing your knowiedge - with Money Management
Money Management is the magazine written and produced by professionals for professilonals,
providing an indispensable guide to developments arroviding an indispensable gulde to develo
in the world of personal financial planning. in the world of personal financial planning.
Mortgages, taxation, life assurance, self-employed
and executive pensions, investment at home and and executive pensions investment at home and
abroad and unit trusts are all covered regulart. PLUS a unique statistical section containing
comprehensive tables for unit trusta, insuranc comprehensive tables for unit th
bond funds and offehore funds.
Make sure you get tright Make sure you get tit right every month, by
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You owe it to yourself $\rightarrow$ and your clients. money management


## More efficient lighting for retailers.



Efficient heating and comfortable cooling.

It was back to the drawing board
for Hulbband Engineering Limiled when their oldd oil-fired boiler
proved too expenste and ineft proved too
cient torun Their two-storey office building at Otey, near lpswich, had an with no provision for cooling the $488 \mathrm{~m}^{2}$ offices had an overheating As engineers. Hubluards knew Thal au cectric reverse cyele heat pump coukd cut running costs and muroxe heating elhcience The
capithatcost of tistalling a heat purmp
was slighly greater than thal of a swstem, bull it had the maior advan-
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electric heat pump. Hubbard
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director who is delightedi all the other office staff are well satisfied. loo, with a s.stem that provides
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maximum economy in the sane sime maximum economy in running installing storage heaters entiailed the hotel a bisted Georgian luildiny Asinany hotel heatsiored during henight inseeted right irought ecause tere damper aryangemen chapern storage healers is
capable of holding back a propor ion of the heal and releasing itither even comfortable teniperatures Inroughoul the 24 hours Inshopsand offices, whereheatis Inshopsandolices, whereheatis more flexible system is available for storage healers which can vary the Whewerking hours.
Wuicker response is re guired Electicaire warm-air units with Jempsons' Supermarket at peasmarshi, East Susserx a a hrivining fanily busiress that had under-
akien an eight-vear prouramme of aken an eight-vear programme of rea of the store Operation of the n-store Electricaire units is com-
pletely automatic An outdoor pletely automatic. An outdoor
weather sensor adjusts the amount
of heat stored, which is then discharged during the day from
each heasler under individual

| Electric storage heating has always hada reputationforsafety, reliabilitity cleanliness, ease of instillation and simplicity of operation <br> The riew generation of storage healers, using low-cost. night-rate electricity now offer businesses more control over running costs, too. Recent developmenis in automatic controls mean more ellic ency and greater economy: Alt the Laston House Hoiel at llfracombe, for example, an ounside weather sensor regulates the amountofheatstored in 20 slimine the heaters frequently by hand is eliminated and at the same time masts is ensured. What is more, installing storaze heaters entailed no structural interference al all io Asinany hotel heat slored during thenight isneeded ripht throughto because the damper arrangement of modern storage healers is tion of the heal and releasing it later in thedakThat ishow comfortable teniperatures throughoul the 24 hours Inshopsand offices, whereheat is nore flever a shomer period, a storage heaters which can vary the pattern of heat outpul during daytime working hours. <br> Where quicker response is recan be installed Such was the case with Jempsons' Supermarket al Peasmarsh, East Sussex a thriving fanily business that had undertaken an eight-year propramme of phased expansiontotreblethesales in-store Electricaire units is completely automatic an outdoor of heat stored, which is then discharged during the day from each healer under individual |
| :---: |

## Why more and more businesses are warming to storage heating.



WORLD TRADE NEWS


## MORGAN STANLEY

MORGAN STANLEY INTERNATIONAL
P.O. BOX 132, COMMERCIAL UNION BUILDING, 1, UNDERSHAFT, LEADENHALL STREET, LONDON EC3P 3HB

## WILL CHANGE ITS MAIN TELEPHONE NUMBER FROM 01-626 9221, TO

| BOND SALES | 01-623 7667 | FLOATING RATE NOTES | $01-2838261$ |
| :--- | :---: | :--- | ---: | ---: |
| BOND TRADERS | $01-6265444$ | FOREIGN EXCHANGE | $01-2838642$ |
| COMMODITIES | $01-6237110$ | GOVERNMENT BONDS | $01-6263266$ |
| CONVERTIBLES | $01-6269661$ | INSTITUTIONAL EQUITIES 01-283 8010 |  |


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## Dollar establishes enduring dominamee <br> THE U.S. DOLLAR contin to dominnte the world's currencies des predictiens oppar reraneuttanding its record sum, which trom beginning of 1 whic has his brought the on appreciation against terting on appreciation apainst sterling of 100 per cent ord againt the Deutsche mark of 50 per cent. The yen nark suff pered leent. folling in value by around 20 per cent over the same period, and by onty 6 per cent in the and by onit 6 per Meanuwhile the U.S. current account deftit has grown drumaticaly    set to foll in inss. <br> The deterioration in the U.S. invisibles cecount has been par ticularriy sharp, with the sumplus dropping. to to titarest surel for top yarg to the the second quarter of 1984, Bioger  and dividends abrodid rifiting fom increased foreign inevest ment in the U.S. would  that there worll be further deterivertion The account hrop slowvodown of US benefit from <br> Trade Weighted Indices <br> |  |  |  |  |  |  |
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|  |  |  |  |  |  |  <br>  <br> $\qquad$ <br>  <br> year to October has given ottractive returns to Europeon ottractive returns to Europeon investors becuuse of the strong dollor investors because of the strong dolur. Hovever, the greatest returns weere in Japan with the returns vere in Japar wieth the combinantiton of of trong morket and o strong yen and o strong yen. The eurrent account deficit may prove more diffcult to mat prove more difficult to finance in 1985, ond woith U.S. banks renerving their banks renewing their overseas lending they may not invest lending they may not in os hearotil in Treasury securtites as they did lost yeor. U.S. economic grouth in real terme terms next year could be oround terms next year conld be orounc the level of that forecast for the UK ond West Germany at $\begin{array}{ll}\text { Whot was othervise a weak } & \left.\begin{array}{l}\text { the UK ond West } \\ 2 \ddagger\end{array}\right) \\ \text { U.S. equity market over the }\end{array}$ <br>  <br>  <br>  <br> 

## THE NETWORKING REVOLUTION CONTINUES..

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for you.



One minute, that's all.
Because that's about how long it will take you to read this piece.

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UK NEWS
MINERS' UNION HAS £4.6m IN LUXEMBOURG BANK
NUM receiver to demand funds

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Railway takeover plan shelved
by PETER RIDDELL POLITCAL EDITOR








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 Campaign aims to halt NHS drug cutbacks Fnnancial Mmas heporter
UK PHARMAEEUTTCAL Compa
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that the proped measurs will create "a two titer national healt
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## Thorn EMI wins $£ 15 \mathrm{~m}$ contract from U.S. Army



Brokers in joint venture for securities market

## gY John moore cti correspondent

THE CBARLES FUNTON group of the jobber's link with Barclays






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BEING KNOWN ASA NUMBER CAN BE A VERY PERSONAL THING Look, for example, at the individual registration Gin. If it were IF 1222146 , it would tell you that your Beefeater was cistilied hurscay: January 5 , 1984 , under the supervision of Thomas Bowman, Master Stillman, Mr. Norman Burrough, a direct descendant of our founder, before it was allowed to leave the distillery.
Does it help to know all this? Yes. DTB. Does it help to know all this? 3. That fumber is a vital part of
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Because the number is Mr Because the number is Mr
Bowman's personal signature. And Bowman's personal signature. And
Mr. Burrough's as well.
And any artist is at his best
 And any artist is at his best
when he has to sign his work.
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THE GINOF ENGLAND


Max Wilkinson reports on an FT analysis of recent economic forecasts

## Growth rate expected to ease




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UK NEWS


Sue Cameron writes on how the DTI operates without its injured chief
Tebbit makes his absence felt


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7 MTA

## one flight from

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Then there's the free car ${ }^{\bullet \bullet}$ for a week When two of you are travelling together you can hire a Hertz car free for a week, when you fly TWA transatlantic.

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GM forecast to overtake BL in car market


## Anglo-German tests on

 N -waste set to startby david fishlock, science edtor
AN ANGLOGERMAN trial of the Gloucester, which has accumulated reatment of radioactive waste by many tons of scrap metal and gra-
incineration is expetted to start in min phite stripped from new muclear


 Induce the volume or naclear waste.
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additional fimportance for


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Trade barriers warning
A WARNING to the Government (MFA), whereby nine developed not the erect berriers to trade with coontries restrict importso developedile



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 Mr Godidman particiulary criti- rew costatocountries have led to direct
cised the multitibre arrangement exporters.


| GENERAL MOTORS, the Vaur-hall-Opel group, should overtake$B L$ and take serond place in the UK new-car market next year, accorcding to the latest forecasts from the | Ely four shames of bk |
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| Economist Imtellipence Unit's (EIU) notor business team. |  |
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## TECHNOLOGY

## Sewer robot set for dark debut

## motorways. For Nick


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## End of the line for dedicated w-p?


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Tom Green


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## The hardest part about borrowing a Macintosh...

## THE ARTS




## FINANCIALTIMES

BRACKEN HOUSE, CANNON STREET, LONDON ECAP 4BY
Telegrams: Finantimo, LondonPS4, Telex: 8954871
Monday December 31984

## Gatt's future

 at stake

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Inconsistency
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## The right to know




## An alternative to the dole

By Samuel Brittan



## FINANCIALTIMES

Monday December 31984

Terry Byland on Wall Street

## A subdued celebration for bulls

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## Case-IH consolidation may take three years

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Europrogramme faces failure as shareholders call for repayment

## ay alan friedman in lugano

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## BY PHILIP BASSETT, LABOUR CORRESPONDENT, IN LONDON

 BRITAINS National UUion of the unlon's defiance of the courts. the serioussess of Mr Brewer's aphe cher tor maintain its defiance of or this attrarnoon the union's speal
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and the strikes leadership over an executive now thought to b be eepepl
divided over whether to continu


## London bank adviser for Hong Kong



THE LEX COLUMN Johnson Matthey passes the hat

| Test crash |
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 (LONDON BRANCH)
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Yen $6,000,000,000$
Three Month Euro-Yen Certificates of Deposit

The undermentioned arranged the first issue ofEuro-Yen.Certificates of Deposit:

Gerrard \&ecichational
Dai-Ichi Kangyo International Limited
rad December, 199+


## SECTION II - COMPANIES AND MARKETS FINANCIALTIMES

## Euroyen issue rush may lead to severe case of indigestion

Peter Montagnon



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## Province of British Columbia

Can. \$100,000,000 121/4 per cent. Notes, Series BCEC-3, due 1991
Algemene Bank Nederiand N.V.
Banque Bruxelles Lambert S.A.
Commerzbank Aktiengesellschaft
Krediethank International Group
Nomura International Limited
Société Générale de Banque S.A.


CIBC LImited
che Bank Aktiengesellschaft
Merrill Lynch Capital Markets Orion Royal Bank Limited Union Bank of Șwitzerland (Securities) Limited


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U.S. $\mathbf{\$ 1 5 0 , 0 0 0 , 0 0 0}$
13.25\% Notes due November 29, 1994

European Banking Company Limited Merrill Lynch Capital Markets Orion Royal Bank Limited

Salomon Brothers International Limited
Swiss Bank Corporation International Limited

Amro Intemational Limited
Banque Bruxelles Lambert S.A.
Banca Commerciale Italiana

BanqueParibas
Bayerische Vereinsbank Aktiengesellschaft
County Bank Limited
Creditlyonnais
Deubank
Dresdner Bank Aktiengesellschaft
FirstInterstateLimited
McLeod Young Weir International Limited
Société Cénérale
Union Bank of Switzerland (Securities) Limited
Wood Gundy Inc

## U.S. MONEY AND CREDIT

## M1 jump dashes hopes of Fed relaxation



## UK GILTS

## Yields pattern set to change again


NEWISSUE These Notes having been sold, this announcementappears as a matter of record only. NOVEMBER 1984
U.S.\$75,000,000


Post- och Kreditbanken, PKbanken
127/8\% Subordinated Notes due 1991
Payable as to 20 per cent. on 28 th November, 1984
and as to 80 per cent. on 28 tri'May, 1985
and
75,000 Warrants to Purchase
U.S. \$75,000,000 125/8\% Subordinated Notes due 1991

Credit Suisse First Boston Limited PK Christiania Bank (UK) Limited

| Algemene Bank Nederland N.V. | Banque Paribas |
| :---: | :---: |
| Banque Bruxelles Lambert S.A. | Berliner Handels- und Frankfurter Bank |
| Chase Manhattan Capital Markets Group Chase Manhatian Limited | Crédit Commercial de France |
| Daiwa Europe Limited | Deutsche Bank Aktiengesellschaft |
| Dresdner Bank Aktiengesellschaft | First Interstate Limited |
| Kleinwort, Benson Limited | Kredietbank International Group |
| Lehman Brothers International Shearson Lehman/American Express Inc | LTCB International Limited |
| Manufacturers Hanover Limited | Merrill Lynch Capital Markets |
| Mitsui Trust Bank (Europe) S.A. | Samuel Montagu \& Co. Limited |
| Morgan Stanley International | Orion Royal Bank Limited |
| Salomon Brothers International Limited | Société Générale |
| Swiss Bank Corporation International cimited | Union Bank of Switzerland (Securities) <br> Limited |
| Yamaichi Internatio | al (Europe) Limited |

Yamaichi International (Europe) Limited







## FT/AIBD INTERNATIONAL BOND SERVICE

## u.s. pounan sthaligris

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## INTERNATIONAL CAPITAL MARKETS AND COMPANIES




INTERNATHONAL APPOINTMENTS
Board sackings for Continental Illinois


## DAIWA SECURITIES CO. LTD.

is pleased to announce the opening of its Brussels Representative Office

Chief Representative: Masayasu Ohi
DAIWA SECURTIES CO. LTD.
BRUSSELS REPRESENTATIVE OFFICE
Boulevard du Régent 54
1000 Brussels, Belgium
Telex: 25354 DASEC, 25900 DASEC
Tokyo Head Office: 6-4, Otemachi 2-chome, Chiyoda-ku, Tokyo 100, Japan Telephone: (03) 243-2111
Overseas Offices: Paris, London, Amsterdam, Frankfurt, Geneva, Zurich, New York Los Angeles, Toronto, Sāo Paulo, Bahrain, Sydney, Hong Kong, Singapore, Seoul, Beiling

## (7) amro international limited

Market makers in Fixed and Floating Rate Euro-Dollar Bonds

101 Moorgate, London EC2M 6SB
Telex 8952728 AMROIL
U.S. $\$ 300,000,000$

Texaco Capital Inc.
12\%\% Guaranteed Notes Due 1987
And 300,000 Warrants to Purchase
U.S. $\$ 300,000,000$ 12 $7 \% \%$ Guaranteed Notes Due 1992

Payment of principat, premium. if any, and interest
Texaco Inc.
morgav stanley internatioval

Devitsicienink
MERRILL LYNCH CAPTTAL MAREETS SWISS BANK CORPORAATININTERNATIONAL

## algemene bank nederland n.v.

BANKERS TRUSTINTERVATIOVAL
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banQue paribas bayerische verenviank
COMMERZBANK : CREDITANSTALT-BANKVEREIN
GENOSSENSCHAFTLICHE ZENTRALBANK AG
MITSUBISHI FINAACEINTERNATIONAL
NOMURA InTERNATIONAL ORIONROVAL BANK SVENSKA HANDELSBANKEN GROIP
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goldman sachs intervatioval corp.
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MORGAN GRENFELL \& Co. SOCIETE GENERALE DE BANQIE S.A. S.C. WARBLRG \& CO. LTD. vamaichilnternatoonil (elrope)
October 23. 1984

UK COMPANY NEWS
John Moore on the start of an international broker-dealing venture

## Rowak's drive for global trading



Wreshbake falls to $£ 509,000$


## F. H. Tomkins £3m placing

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NOTICE OF REDEMPTION TO HOLDERS OF
INDUSTRIAL BANK OF FINLAND LTD
Kuwaiti Dinars $\mathbf{6 , 0 0 0 , 0 0 0}$
$71 / 2$ per cent. Guaranteed Notes due 1989 NOTICE IS HEREBY GVEN Mats pursuant to me provisions of the Nores of the



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| 00436-00490 | 03061-03085 | 05071-05085 |
| 00911-00935 | 03131-03140 | 05501-05564 |

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KUWAIT INVESTMENT COMPANY (S.A.K.) on behalf of
Dated: Ist December, 198



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Financial Times Monday December 31984
AMERICAN STOCK EXCHANGE COMPOSTTE CLOSING PRICES


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WORLD STOCK MARKETS





Contracts and Tenders

## FINANCIAL TIMES SUBLISHED IM LOMDON \& FRAEMFUPT

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IRISH INTERVENTION AGENCY Invitation to tender for wheat as food aid Tenders are invited for the supply in bulk of ,.036. tonoes
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 Dublin 2, Ireland
Notices of Invitat


## Telephone Nos.

Telex Nos.
 Department of Agriculture, Dublin, Ireland


IWTERKATIONAL \& BRITISH EDITORIAL, ADVERTISEMEMT
















## CONSTRUCTION CONTRACTS

Lelliott wins


 and

## Brignell builds in Cambridge



## APPONTMENTS

Royal Trust of Canada appoints new chairman


This adverisement is issued in compliance with ihe requirements of the Council of The
Stock Exchange, It does not constitute an invitation to any person to subscribe for or Stock Exchange, It does not constitute an invitution to
purchase any Convertible Cumulative Preference Shares.

Johnson Matthey Pubbic Limited Company

| Proposed to be authorised f | Share Capital | Issued and to be issued $f$ |
| :---: | :---: | :---: |
| 194,702,426 | Ordinary Shares of $£ 1$ each | 133,215,753 |
| 450,000 | 55. | 300,000 |
| 25,259,521 | 8\%Convertible Cumulative PreferenceShares off1 each | 25,259,521 |
| 220,411,947 |  | 158,775,274 |

Application has been made to the Council of The Stock Exchange for the Johnson Matthey Public Limited Company to be admitted to the Official List subject to the passing of resolutions at an Extraordinary General Meeting of Johnsin Matthey Public Limited Company to be held on 6th December, 1984
and to allotment. and to allotment.
Particulars relating to the Convertible Cumulative Preference Shares are available in the statistical services of Extel Statistical Services Limited and copies of such particulars may be obtained during normal business hours on any
weekday (Saturdays and public holidays excepted) up to and including 27th weekday (Saturdays and

| S. G. Warburg \& Co. Ltd., | or from | Phillips \& Drew, |
| :--- | :--- | :--- |
| 33 King William Street, |  | 120 Moorgate, |
| London, EC4R 9AS. |  | London, EC2M 6XP |


$£ 40,000,000$
10\%\%\% Deposit Notes due 15th December, 1991
Issue Price $100 \%$


| ights of the year ended 31st May 1984 |  |  |
| :---: | :---: | :---: |
|  | 1984 | 1983 |
| Turnover: | £262 million | £276 million |
| Profit before tax: | £30.9 million | £26.9 million |
| Total dividend per share: | 5.15p | 4.75p |

"Despite a year of difficult and at times, uncertain trading conditions the group in 1984 produced its highest-ever profits."

Nigeria :..
InNigeria three factors benefitted the
Cussons group. Firstly, a four year $£ 100$ million capital expenditure programme to increase local manufacturing capacity had reached completion; secondly, the Nigerian Government, having classified soaps and detergents as requisite import licenses for raw materials and spare parts; thirdly, the group continued its policy of financing adequate levels of its raw material and othet import requirements. Operations in Nigeria thus Governments efforts to alleviate shortages and also produced higher profits.

The contribution of the Cussons group showed an improvement over the previous year with Australia and Kenya reporting their highest profits to date.
In the United Kingdom Cussons' results continued to be depressed by the slow recovery of manufacturing performance and by higher raw material prices.

Other operations
The performance of other group operations overseas was generally satisfactory apart from Greece, where results have been adversely affected by increasingly harsh price controls.


Frinancial Times Monday December 31984


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## 4 <br> ZAMDPAK GOLD MIHIMG COMPANY LIMITED

## ("ZANDPAM")

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December 1984


CURRENCIES, MONEY and CAPITAL MARKETS

## FINANCIAL FUTURES ——FOREIGN EXCHANGES



POUND SPOT-FORWARD AGAINST POUND


BANK OF ENGLAND TREASURY BILL TENDER



TRW is a widely diversified company on the leading edge of electronics and space tectnology. Our Pioneer 10 spacecraft (pictured) was the first man-made object to leave the solar system. And TRW electronic components have hundreds of down-to-earth applications - from computer tape drives to television sets.


TRW began as an automotive parts manufacturer over 80 years ago. Today, almost every car and ruck on the road contains TRW parts. TRW factories around the globe produce a wide range of automotive parts - from bearings and valves to complete rack and pinion steering systems.


TRW industnal and energy products have eamed a reputation for reliable performance. TRW equipment, backed up by an exiensive field service and repair network, helps purmp oil and gas around the world. TRW components keep the worlds aircraft flying; and TRW bearings, tools, and fasteners help raise productivity levels worldwide

A Company Called TRW

## SECTION III

## FINANCIAL TIMES SURVEY

The software industry is growing at an unprecedented rate, but fragmenting as it does so into distinct, sometimes opposing, camps. It means that difficult decisions are ahead for software manufacturers, suppliers and users.

# Computer Software 

## Approaching the great divide <br> by ALAN CANE <br> THE SiOFTWARE bisiness, worid-wide has been through one major revolution in the past five years; now it seems set for further upheavals as the full implications of personat eompation sink in. in the West the traditional mainframe and minicomputer processing departments in buisiness, government or or leisure. around personal computing, whether for business  

## MTHIS SURVEY

 Sothmre finnnee: batcle to attract
investors.
 Ore software semene major, manufac

Priojreses sin Jiajan: exceling in games
and
mapphics..................$~$ Wesíein Europes market.summary 4 West Germang: fierce compettion

among 3,000 software concerns ... | France: ble shake-up in the market |
| :--- |
| place $\ldots . . . . . . . . . . . . . . . . . . . . . . . . . ~$ | French and German vendors: the

leading companies ................ - sotiware technology:"

| Sotwwre engineering: new techniques |
| :--- |
| hold the key to the future |




## 16pointed questions to ask MSA orany software supplier



## The survival of the fittest

WTMEPPLAN PROFIT from $\sqrt{\square 7} \sqrt{\square 0} 0)$ SOFTWARE cofle
the ultimate business system
Start with nne motule, ona work atation - grow
to 256 -user mainframe size with none of tha
cost or problems involved in recoding training, changed procedures. ACGOUNFIITE MANUFACYURIITG
up to 16 integrated modulae, running on WANG VS computers means real-time pricessing and
repnrting for growing companios. That trled and testad in uha USA-now

try shakeort twate develnpers. In the midest of an indus.
the personal computes the cuthroat competion of The personal compater hardware business look like a
good natured bum fight, software companies are trying
lo figure out how tn stay olive in an increasingly hostile Entimates put the number of U.S. personal com puter software companies at the beginining of this, year
at around 6.00. By January 985 less than half of these
companies will remain in business, according to industry
 in the U.S. LOUISE KEHOE
in Califomia

Looking
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cTHE TROUBLE is the City does not understand some
thing it cannot kick," complained the chief executive of Software finance thing it cannot kick, comp
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trating search for finarce. ing about the problems of finance. Yet the very few software companies to have full quotes on the London
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 there are bnndreds of softwaza
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out of busin
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 Anxieties







## investors


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## 



## READ THIS

"Perhaps it is unfair to single out the Briitish failure in artificial intelligeince when Britain has done so badly elsewhere in compuring too
British VLSI is not formidable. British mainframes are not beat sellers. British VLSI is not formidable. British mainframes are not best sellers. PROLOG, British programming hanguages have been inconsequencial on the world scenc.
The only reasion for dwelling on the British example is that it demonstrates wiat it was like to have had everyuning in place to excel, and yet by mismanagement, by misperceptions, by folies de grandecar a unaion from a winner into a loser. In England's tragedy there is am bvious hasson for Americans". Professor Frigenbaum-a fournding, fartier of artiicial
ntelligence-writing on the "Frftit Generation"

## AND THINK

Over $12 \%$ of the ICL user base has discoviered just how That means 87\% + havn't. Mismianigémentr' Misperception? Folies de If dear ? Other Delusions?
If your have an 0 -line system on an- ICL mainframe and are not usiog or write your name on your letrerhead and seaid it.to himm at
Telecompuring plc, 244 Barn's Road, Oxford, $0 \times 43$ Ww


## High optimism in packages sector






| UK software vendors |  |  |  |
| :---: | :---: | :---: | :---: |
| Major independent packaged sottware suppliers in 1983: |  |  |  |
| Comptay | Country of oricin | Revenne | Market |
| MSA/Peachtree | US. | 10.0 | 5.2 |
| Peterborough Software ........... | UK | 8.1 | 4 |
| PPL | UK | 6.4 | 3.4 |
| BIS ................................. | 1K | 5.9 | 3.1 |
| ACT ............................. | UK | ${ }_{5}^{5.6}$ | $2 \cdot 9$ |
| Thora Enil ............................... | UK. | ${ }_{4.5}^{4.5}$ | ${ }_{2}$ |
| VisiCorp .............................. | U.s. | 4.3 | 23 |
| MieroSoft ......................... |  | 4.3 | 22 |
| Cineom ..... |  | 4.1 | 2.1 |
| Other .............................. |  | 133.4 | 69.8 |
| Total ............................ |  | 1910 | 100.0 |
|  |  |  | ca: loc. |
| UK third party vendors |  |  |  |
| The top 15 third parts vendors in 1983: |  |  |  |
|  | Country of | Revenue | Market <br> sbare |
|  |  |  |  |
| sseo .... | U.s. | 43.5 | 3.1 |
| IBM | Us/u. |  | -2.6 |
| Centre-Flie ........................... | UK | 35.8 | 2.5 |
|  | UK |  | . 4 |
| ${ }_{\text {CAP }}$ Logica (0ip | UK | 31.7 26.2 | $\underline{18}$ |
|  | UK | 20.5 | 1.4 |
| Comshare .......................... | U.S. | 19.2 | 13 |
| Cub | Us. | 18.7 | 13 |
| Data Losic ..................... | UK/0 | 15.7 | 1.1 |
|  | U | 14.0 | . 0 |
| BIS ....... | UK | 12.9 | . 9 |

# Business decisions aren't always as simple as Black and Pink 

Making a business decision is never easy. All the options must be consididered and time is ahways too short new integrated program to help all managers make more effective decisy exeative needs on his personal microcomputer and everything is totally integrated.
. Data cakculated on the Decision Manager spreadsheet can be displayed in a graphic format included in a report on the executive word processor and electronically transmitted to Head affice - allat the touch:of a few keys-mportandy, data cance. All applications are integrated into a single program and information from each area can be shown simultaneously on the screen in easy to use "windows, So for instance, iniancia preparing a letter. Up to 10 windows can be shown at any time, and the colour of text and backgrounds can be defined by th

## The Spreadsheet

The:prime tool for analysis of numerical and financial data the Decision Manager spreadsheet takes the guesswork out of business planning You can produce models for pricing strategies, profit and loss statements, or forecasting and can quickly explore

## Word Processing

Peachtrees word processing software is simple to learn and easy to use, so it is ideal for managers with no previous nowledge ollowing flexible drafting, editing and manipulation of text in report writing
The Graphics System
Visuals can communicate much more quickly than columns of figures, sol Deailten Manager provides thirteen different graphic ormats for presenting data from other areas of the program. Bar charts; pie c


The Database
An electronic filing system gives immediate access to personal confidential records of all areas of your business. You can define the record format to suit your own requirements. Decision Manager offers
one of the largest databases available in integrated software.
Telecommunications
The link from micro to micro makes it possible to transfer information within the building, or to other locations, to secretaries,
colleagues, customers and suppliers, or to access public databases.
Micro/Mainframe Link
Using Decision Manager's unique mainframe link, you can draw data from a company's mainframe computer which supports the IBM


Decision Manager is a new concept in integrated business software from Peachtree, available immediately for the IBM PCX to the normal support from your local dealer, you get 90 days free telephone support direct from Peachtree
to help you make even more of your new
decision making powers.

## Decision Manager



## Excelling in games and graphics

INSTEAD of warking in the quiet of an up-market office
Cavironment or out if a homee garage, most Japanese
compnter programmers ruh shoulders with thousands of environment or out nf a haone garage, moost japanese
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snftware companies in Japan, mosily surviving ni snftware companies in Japan, mosily surviving nn
sub-cnutracted work to the majnr computer manufac-
turers.


Demonstrating the County's vitality, the talents and enterprise of its
 a reputation for software and computer

## SinmunistiveHDIBETMY!

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## Big shake-up <br> in the market place



## Fierce competition

|  |  and was no longer appropriate because of tha development of more poweriful and coimplex arstems With West Germany becomling. more concerned to make - nology, thene is growing ensDr Roland Schwetz, a senior Siemens execuive, ferred too softwe. tecmhology sis the hats for future economic success He said that experience with conputirs and as quickly as possihle in all areas of educa- tion in West Germany. Although locil coincerns proware in West Germany, U.S. and UK comparies also bave a <br>  and Gervicts Prieigh companies fast growth in tha Ue.s. and the theing increasingly aftracted by prospectr that the West German market is gather- ing momentum <br> Expansion <br> incerotocus of the DK has just set up itt owis substiary in Wreat Germany, Aumial and lts Cobol software tols for mienocomputers and personal coimpaters. <br> Last year Microfocus earned m the U.S., 27 per cent in in Japarin 13 per cent in the UK and 2 ting 2 per cent eisewhere. The company see conssderahle Europe, according to Herr Erilk Tonnesen, gemeral manager of the Murich subsidiary and a data processing and marketing Prop Mirdonfe International is also presgling sates in West Ger- minaiy throngh its link with RHV Software Technik, Its distriburLon network incindes the metro supermarket chain as an outlet for microcompater software. |
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French software vendors








## Most software companies assume

 There are plenty of software pack- 70710 What is more, with add-in appli ages around to help control businesses. 1 e cations, Symphony can grow with you, and send it to addresses require very well indeed.to disp one for processing, thenan
On display spreadsheets.
One for database, and another for graphics, and so on.

Each with its own set of commands.
Lotus Symphony"does it all on one disc. Single handedly you can do sales forecasts, ad-

If hare no limits to its uses.
I, however, your needs are simpler, you can choose Lotus 1-2-3. It handles most office requirements (spreadsheet, graphics and data ) on, of course, one disc.
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Teledata on $01-2000200$.

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## New techniques hold the key to the future



Many UK employers have not yet started to select or train staff for vital computer skills, according to recent reports

## Industry faces big challenge





MORE AND MORE PEOPLE ARE USING OUR FINANCIAL SOFTWARE


DRAW YOUR OMN CONCLUSIONS AND MODELI Professional computers, each sysuem has been proven and intermaxional companies GLELEVN is an integrated site of Siles. Purdisee,
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A mandatory buzz word of computing


## Big orders for financial software



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## Solutions are <br> a long

## THE SOFTWARE LEADERS





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## U．S．－based suppliers dominate the sector



Duning the last six months we have increased our turnover by 45\％．We have launched． 17 new products；set upnew divisions handling Managemen

We have re－equipped and extended our London offices and opened new ones in the Middle East and Canada Now，with all these achievements under our belt we are able to offer more products and more service to more markets． Our completely integrated software products can offer the right solution to your business problems．You owe it to


If you would like any further information regarding any of the areas mentioned or would like to receive a copy of PPL NEWS please write to：－

Package Programs of Londion 91 Blackfriars Road，London SE1 8HW
Tel： 6330121 Telex： 888724 PACPRO
What on earth would you call software designed by businessmen for businessmen, so easy to use that most customers start using it right away, that is designed specifically for business and financial planning and forecasting, that prints out a boardroom quality management report, that the trade press recognise as a major breakthrough, that sets new standards for speed and ease of use, is backed by one of the world's most respected newspapers and available for just $£ 395$ to run on IBM, Apricot, Sirius and other leading personal computers?

## FT.Moneywise

What else?

[^1]



## A boost for the tourist industry



Rapid changes in technology and financial software requirements bring strong pressures on system suppliers

## Suppliers cannot rest on their laurels



## Just think what they could have done with Framework'.

Themiracle is not so much that these four produced such masterpieces of original thought.

But that they did it without Framework ${ }^{\mathrm{TM}}$.
Framework ${ }^{\mathrm{TM}}$ for the IBM PC and compatibles is the first completely interactive all-in-one program for business users. Ideas processing, database management, spreadsheet analysis, graphics, word-processing - each in window-like"frames" that can be called to the screen at will and used to enter and access information - either singly or in combination.

And with pull-down screen menus and a single set of keystrokes and commands throughout all its features, Framework ${ }^{\text {TM }}$ is easy to learn and simple to use.
You can use its outlining procedure to structure and develop ideas and themes - when writing your latest "Hamlet", for example. While using a word processing frame to work on a separate document, or to commit some of those ideas to a finished script.

You can work on a database frame while evolving à revolutionary theory of
physics, introducing spreadsheet frames within it to work out the contingencies; or to process other data that runs parallel. With the
mass-produced car. And using your newly developed "telephone"(and Framework's built-in comms) to send those results anywhere in the world.

formulae behind the spreadsheets providing automatic recalculation.
 a graphics frame to analyse competitors' sales profiles before designing the first
ASHTON:TATE
Cofferidge Close, Stony Straford, Millon Keennes
Bucks MKII IBY, Telephone: 0908568866
Whilst our four friends above would have used Framework ${ }^{\text {TM }}$ in different ways there's one thing on which they'd all agree.

The real beauty of Framework ${ }^{\mathrm{TM}}$, is the ability it gives you to word-process in a spreadsheet. Use database in an outline. And have as many different types of frame on screen as you need.

After all, few businessmen can afford to make a major decision using only one set of information! Framework ${ }^{\mathrm{TM}}$ is unique: it allows you to solve your problems your way. It has a capacity for work that's as large as the memory you give it - and it's perfect for any business or commercial application because it gives the user total flexibility to arrive at a conclusion.

The luminaries above did very well without Framework ${ }^{\mathrm{TM}}$.

Mind you, they didn't have to compete with people who'd bought it. You do!

## Really three markets rolled into one





## No single 'package' will fit all bills



## Was Keynes a genils, or did he have Multiplan?

A few years ago, a certain ago when there was no such designed to be more John Maynard gained a reputation for his radical monetarist theories.

And like a lot of men reckoned to be a little ahead of their time, some people found his theories rather hard to swallow.

Thing is, he had a point.
In fact, he had quite a few points.

And all this was a while
thing as Multiplan, from powerful and easier to use Microsoft.

Simplyit's theworld'sNo.l spreadsheet.

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No cryptic codes.
Just simple, easy to read. formats. With a capacity of 63 columns by 255 rows.

Alsó, Multiplan can link information from different: worksheets; with the ability to make adjustments on primaryworksheets and transfer the results.

You can sort the entries alphabetically either in numbers or as a message, and Multiplan can read other spreadsheet models directly:

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Andit all works.
So you don't have to be John Maynard Keynes to predict the effect of a change of circumstances in your business furure. Find out for sure, with Multiplan.

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    FAILURE TO READ THIS ADVERTISEMENT COULD COST YOU̇ MONEY

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